Nokia Customer Care
RH-21 Series Transceivers

Disassembly/Assembly

© 2004 Nokia Corporation.
Company Confidential

 © 2004 Nokia Corporation.

Contents

Page No
ESD Protection 5
Step-by-Step Disassembly Guide.... 5
Remove B-cover 5
Remove RF Plug 6
Remove A-cover 6
Remove screws 6
Remove lightguide assembly 7
Remove metal frame and earpiece 7
Remove PWB assembly 8
Remove shielding lids 9
Remove components from D-cover assembly 9
SALT speaker.... 10
Step-by-Step Assembly Guide.... 11
Mount components in D-cover 11
Mount shielding lids on PWB 12
Mount PWB on D-cover 12
Mount earpiece and metal frame 12
Mount domesheet 13
Mount display assembly on D-cover 13
Mount screws 14
Mount keymat and A-cover assembly 14
Insert RF Plug 15
Place battery 16
Mount B-cover assembly 16

 © 2004 Nokia Corporation.

 © 2004 Nokia Corporation.

ESD Protection

Step-by-Step Disassembly Guide

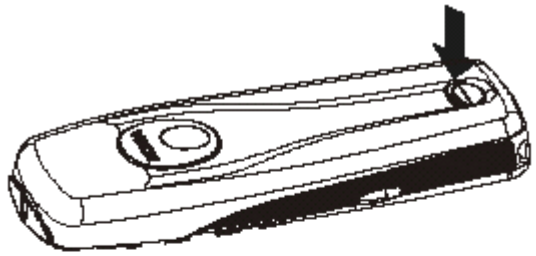
The following diagrams may be helpful in explaining the correct sequence and technique for disassembly of the RH-21 handsets.

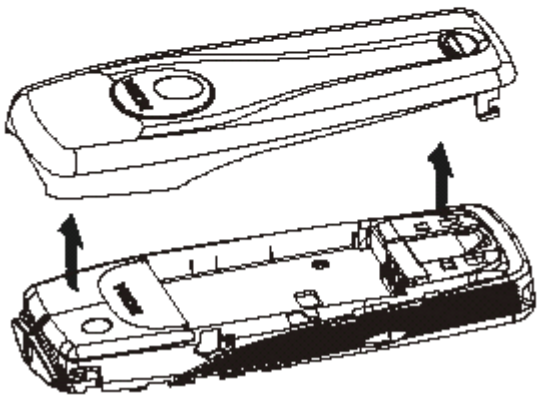
Remove B-cover

1 Turn phone off

2 Remove the B-cover by pushing the button (indicated by arrow)

3 Lift the B-cover up as shown by the arrows.

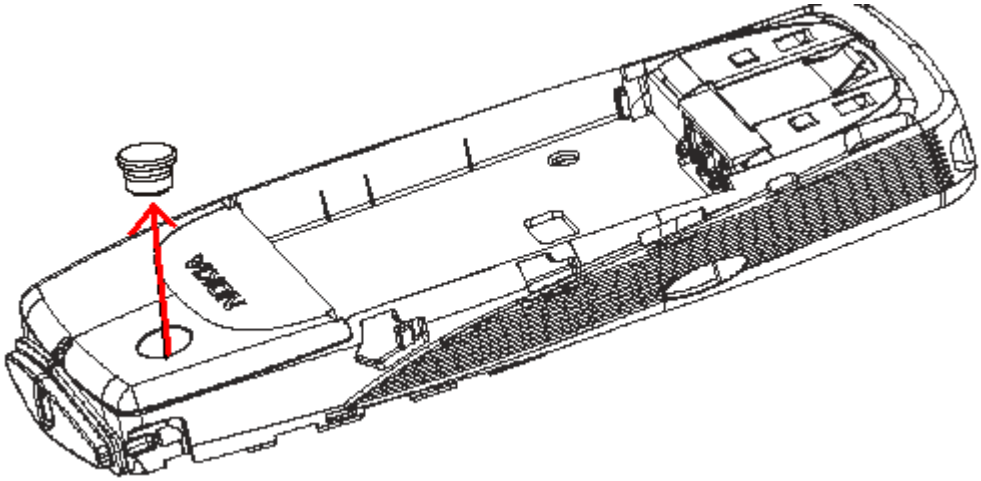




© 2004 Nokia Corporation.

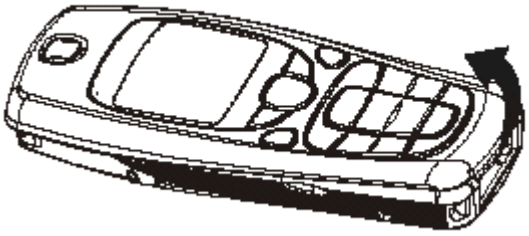
Remove RF Plug

Remove the RF Plug from RF connector opening in the antenna.



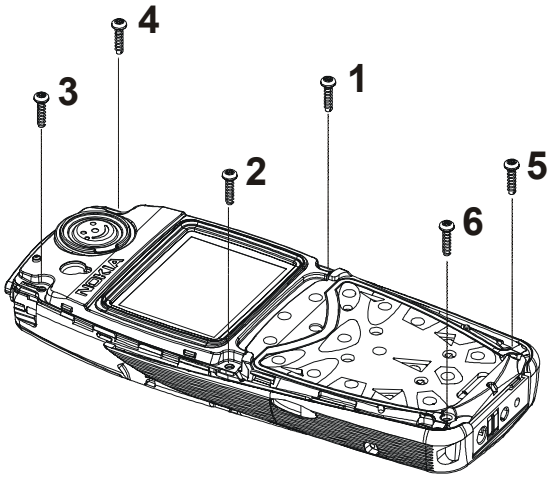
Remove A-cover

Place thumb under the edge of the A-cover and fingers on top of the A-cover, then pull gently until it snaps. Once lifted, ensure that the keymat does not fall out of the A-cover.



Remove screws

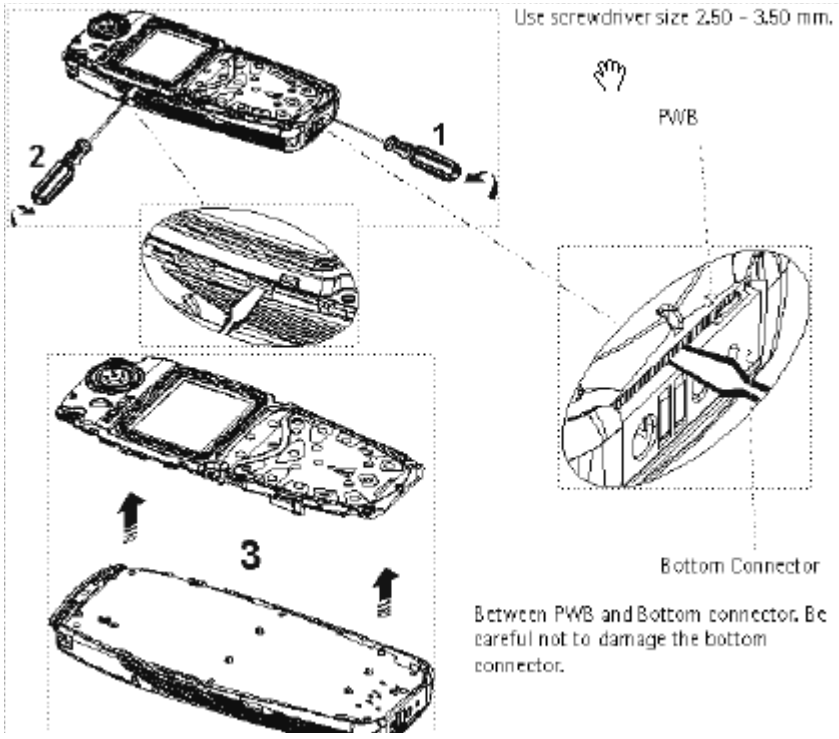
Unscrew the six screws as indicated.



© 2004 Nokia Corporation.

Remove lightguide assembly

Follow the steps indicated in the following diagram:



Remove metal frame and earpiece

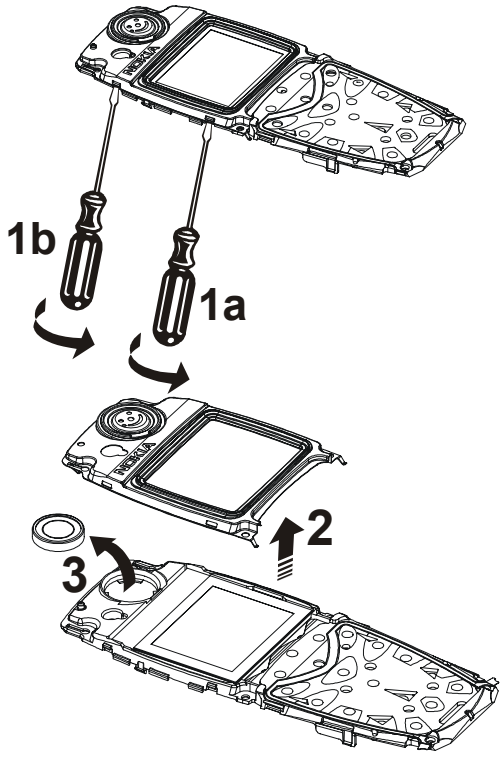
Follow the numbered steps in the following diagram.
Note: Use screwdriver size 2.50 – 3.50 mm.

1 Turn screwdriver at snaps only on one side

2 When removing the metal frame, be careful not to damage the four springs in the corners

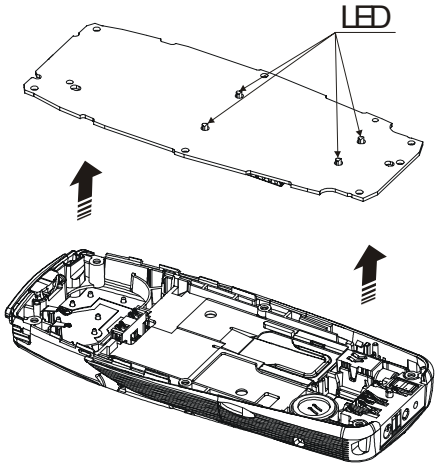
3 Remove earpiece

 © 2004 Nokia Corporation.



Remove PWB assembly

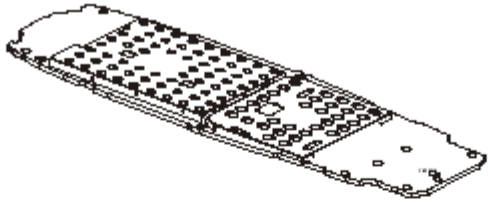
Lift the PWB as indicated in the following drawing. Then, place the PWB on ESD table with LEDs on top.

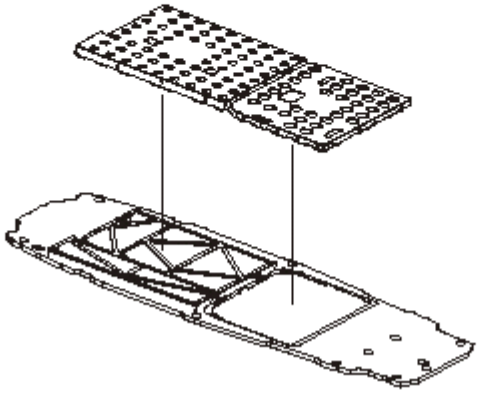


© 2004 Nokia Corporation.

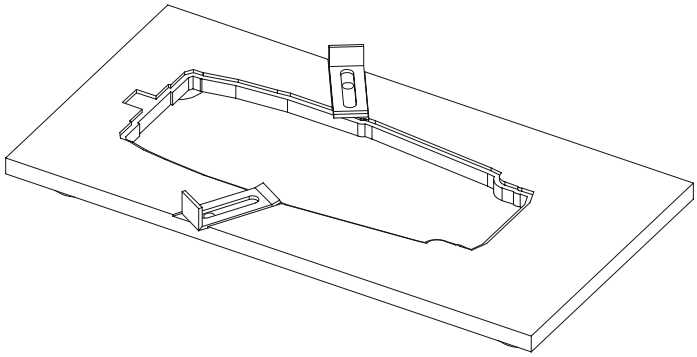
Remove shielding lids

Caution: Do not re-use shielding lid once it is removed.





When working with the PWB, always use a repair jig.



Remove components from D-cover assembly

The following components are removable:

1 Power key

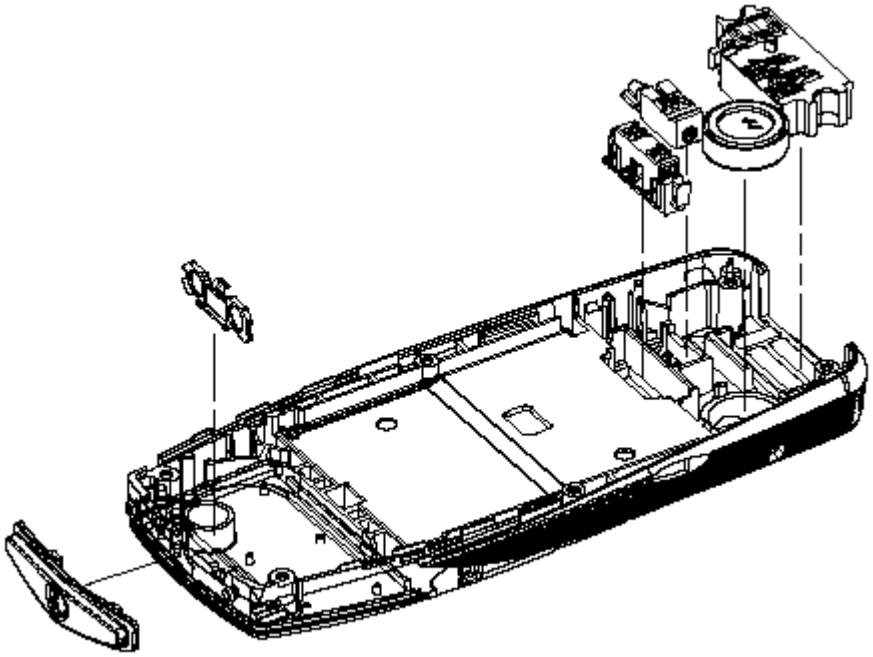
2 Battery connector

3 SALT speaker (see diagram)

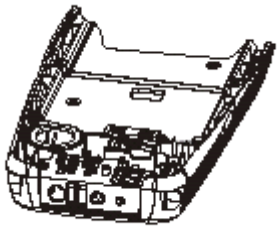
4 Vibra

5 Bottom connector

© 2004 Nokia Corporation.



SALT speaker



© 2004 Nokia Corporation.

Step-by-Step Assembly Guide

Mount components in D-cover

1 Power key

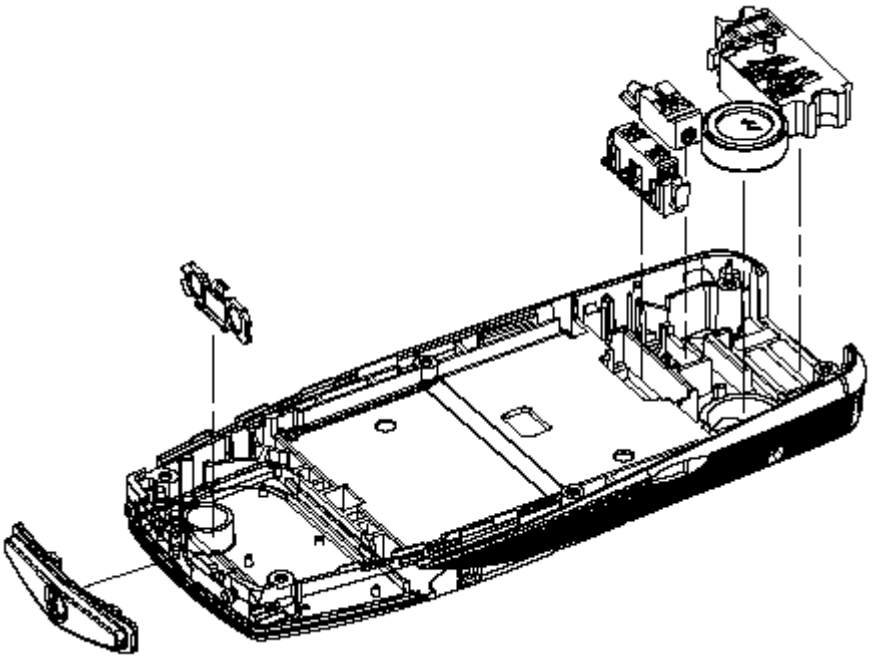
2 Battery connector

3 SALT speaker

4 Vibra

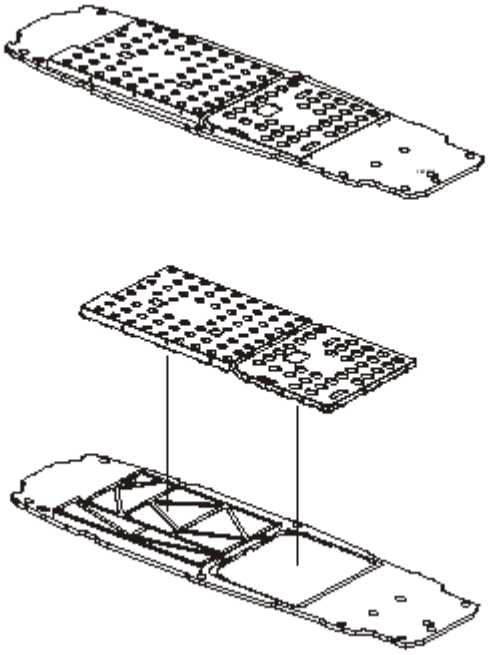
5 Bottom connector

Note: Ensure that all components are placed correctly.

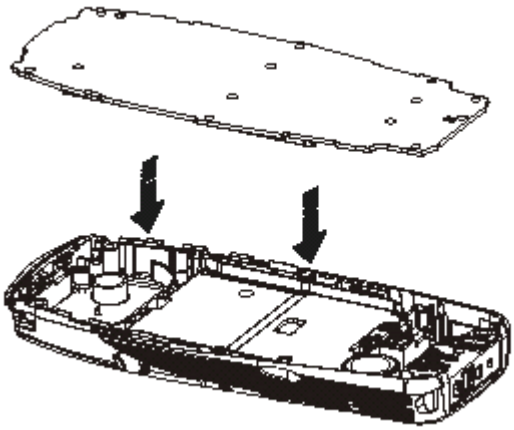


© 2004 Nokia Corporation.

Mount shielding lids on PWB



Mount PWB on D-cover



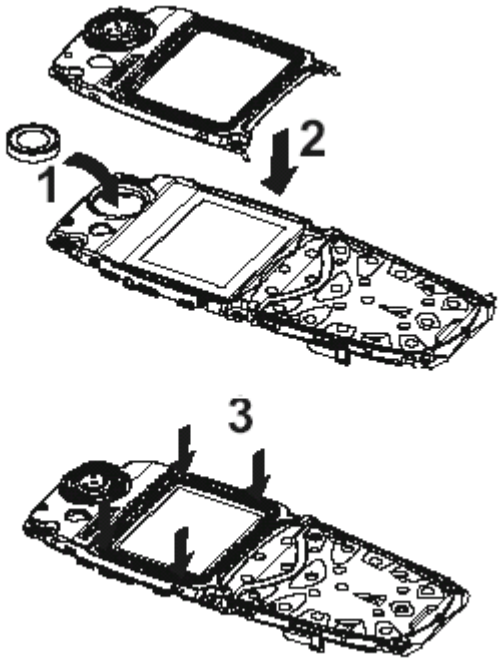
Mount earpiece and metal frame

1 Mount the earpiece in the lightguide

2 Place metal frame on lightguide – be careful about the springs in each of the four corners

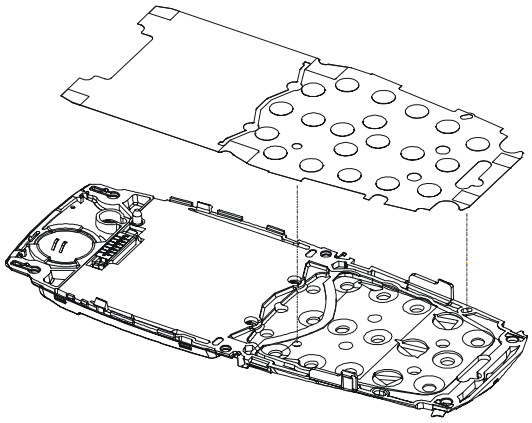
3 Push the metal frame down (indicated with arrows in drawing below) until it snaps on

© 2004 Nokia Corporation.



Mount domesheet

When mounting the domesheet, use the two holes indicated as guide.

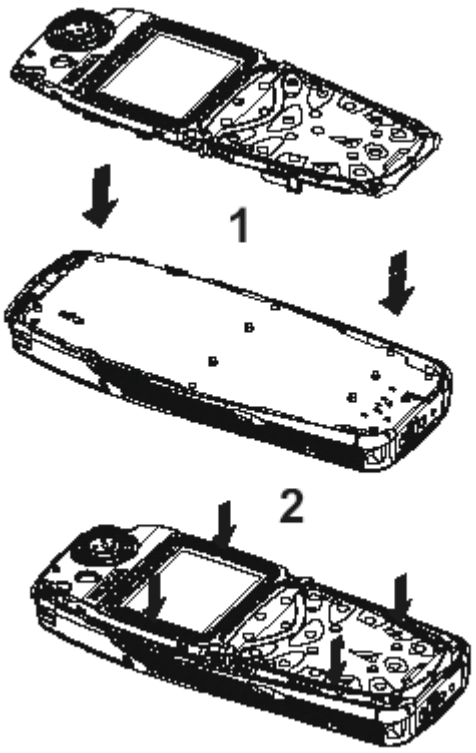


Mount display assembly on D-cover

1 Place the display assembly in the D-cover

2 Push the display assembly down (indicated by arrows in the drawing below) until it snaps on

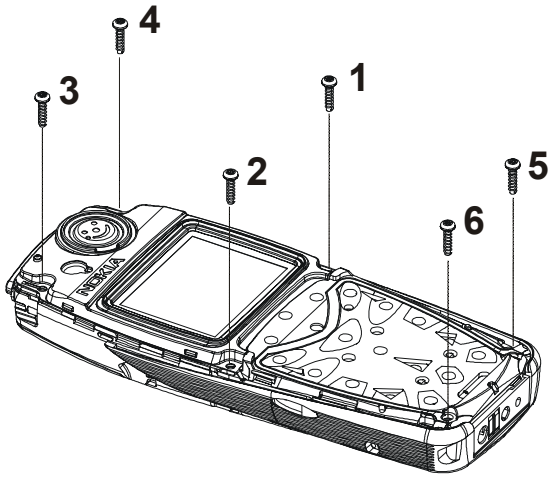
© 2004 Nokia Corporation.



Mount screws

Fasten the screws in the sequence indicated in the following diagram. Be sure to use a torx #6 screwdriver.

Note: Max torque 28Ncm at 500-600RPM.

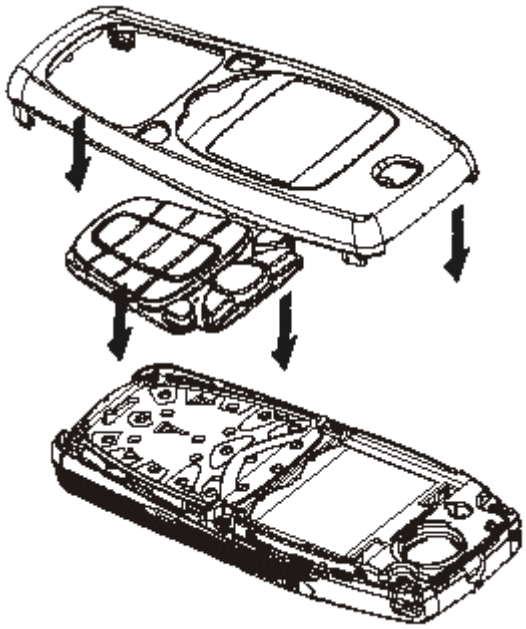


Mount keymat and A-cover assembly

1 Place keymat

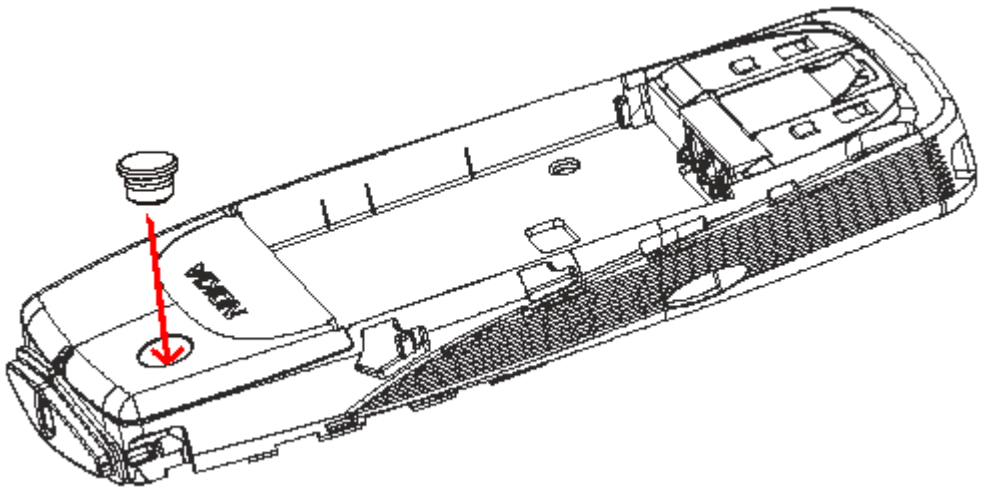
2 Push down the A-cover until it snaps on

 © 2004 Nokia Corporation.



Insert RF Plug

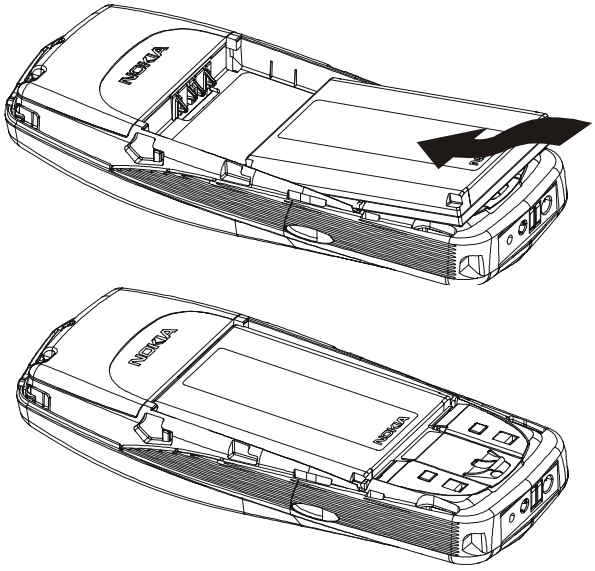
Insert RF Plug into RF connector opening in the antenna.



© 2004 Nokia Corporation.

Place battery

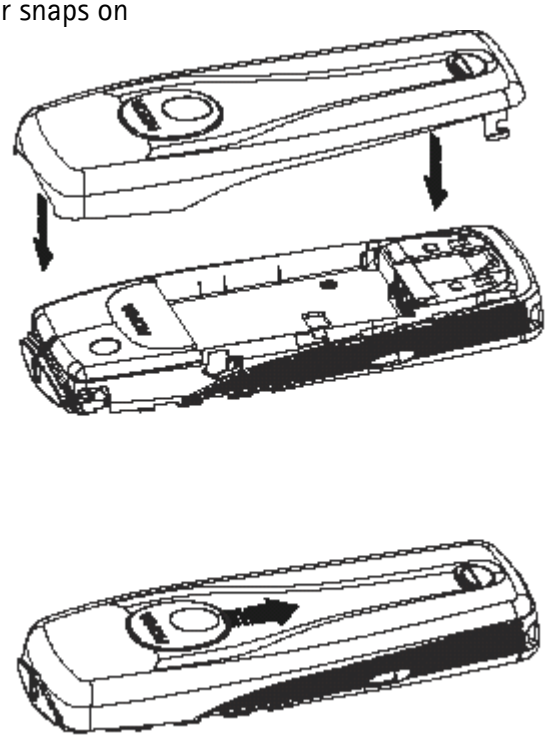
Slide battery under the hooks in the D-cover.



Mount B-cover assembly

1 Place B-cover assembly on D-cover

2 Push the B-cover in the direction indicated by the arrow in drawing below until the B-cover snaps on



© 2004 Nokia Corporation.